FIG. 1

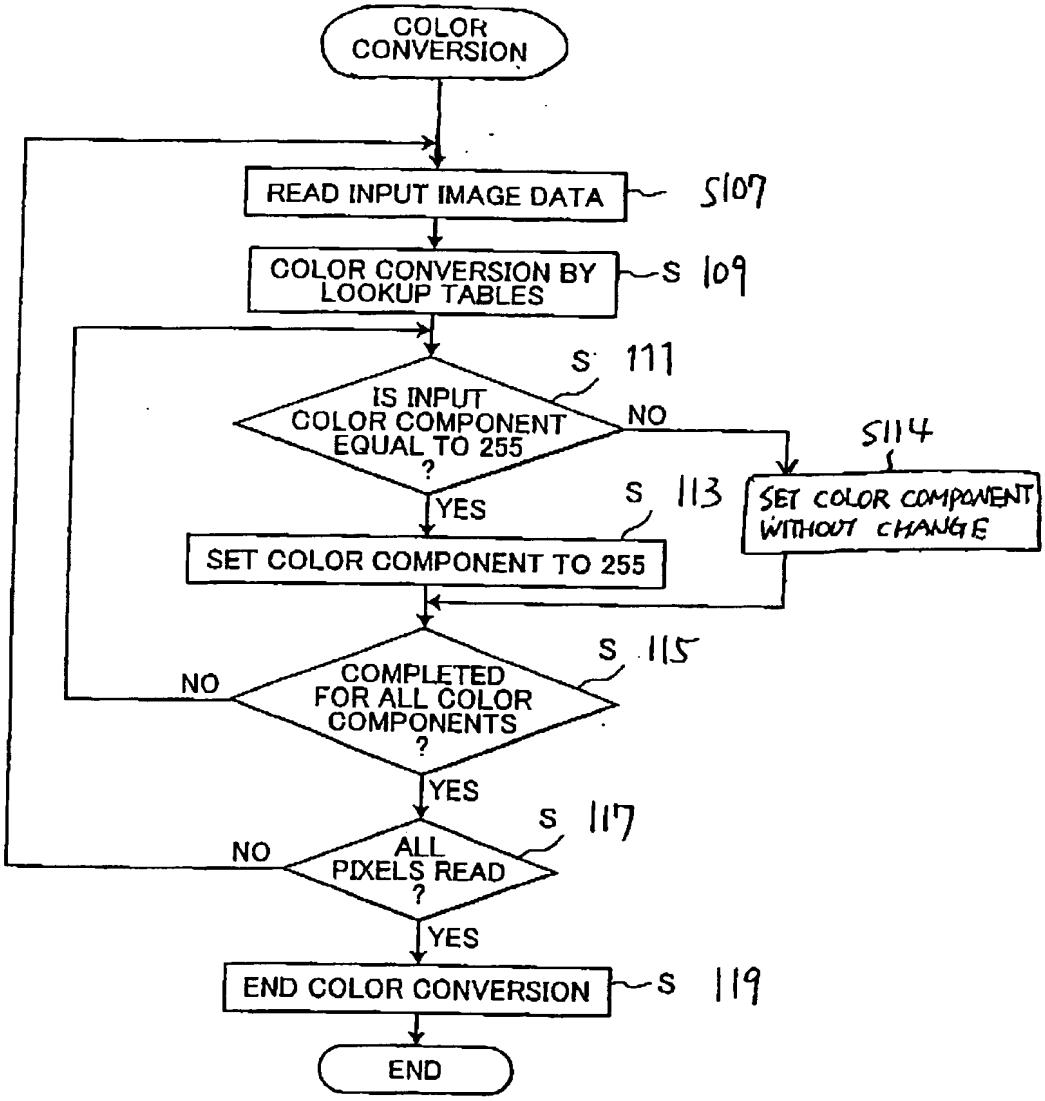

COLOR CONVERSION
READ INPUT IMAGE DATA
S107
COLOR CONVERSION BY LOOKUP TABLES
S 109
S 111
IS INPUT COLOR COMPONENT EQUAL TO 255 ?
NO
S114
SET COLOR COMPONENT WITHOUT CHANGE
YES
S 113
SET COLOR COMPONENT TO 255
S 115
COMPLETED FOR ALL COLOR COMPONENTS ?
NO
YES
S 117
ALL PIXELS READ ?
NO
YES
END COLOR CONVERSION
S 119
END

FIG.2(a)

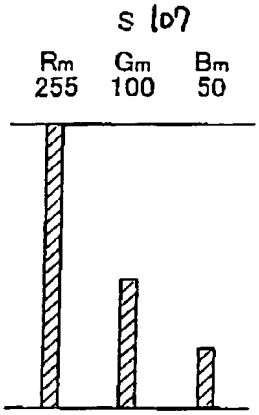


FIG.2(b)

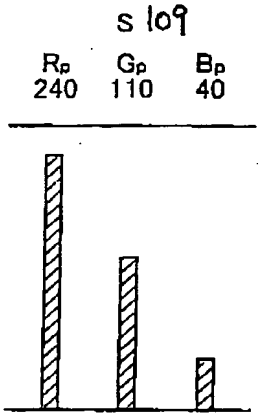


FIG.2(c)

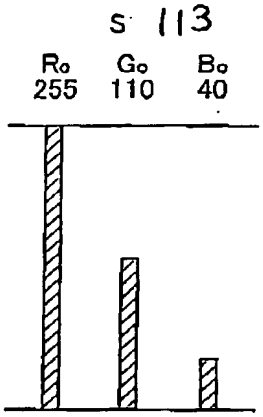


FIG.2(d)

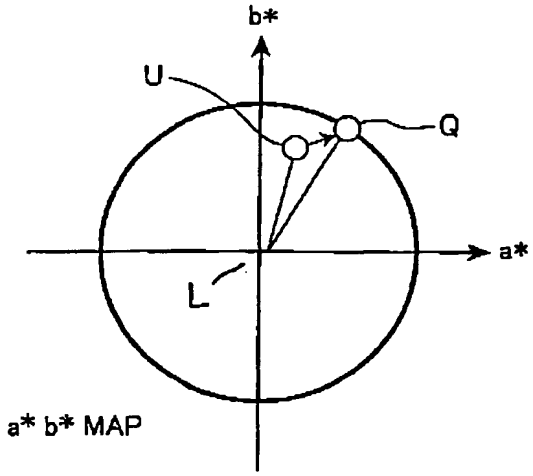


FIG. 3

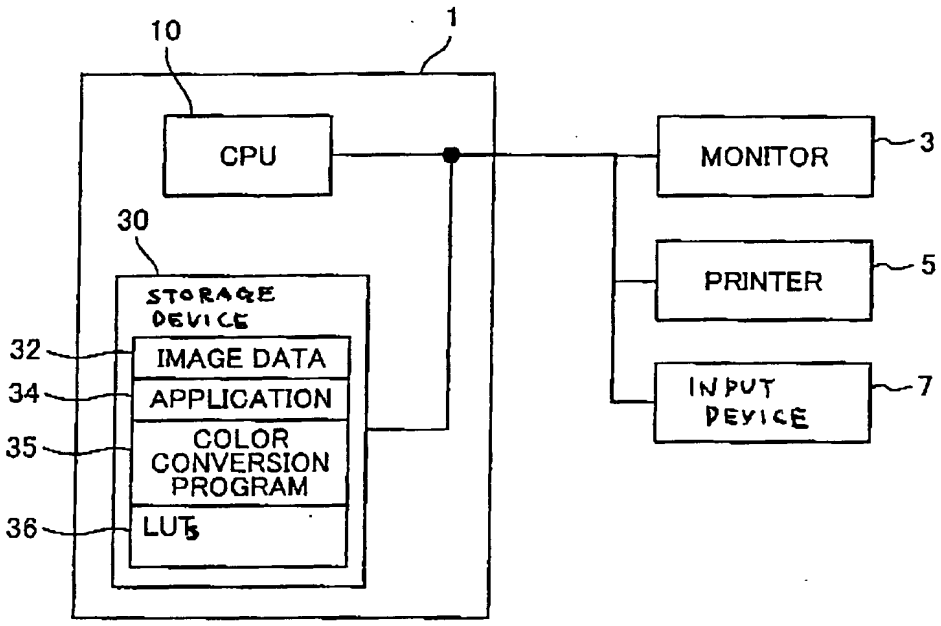

10
1
CPU
MONITOR
3
30
PRINTER
5
STORAGE DEVICE
32
IMAGE DATA
34
APPLICATION
35
COLOR CONVERSION PROGRAM
36
LUTs
INPUT DEVICE
7

FIG.4

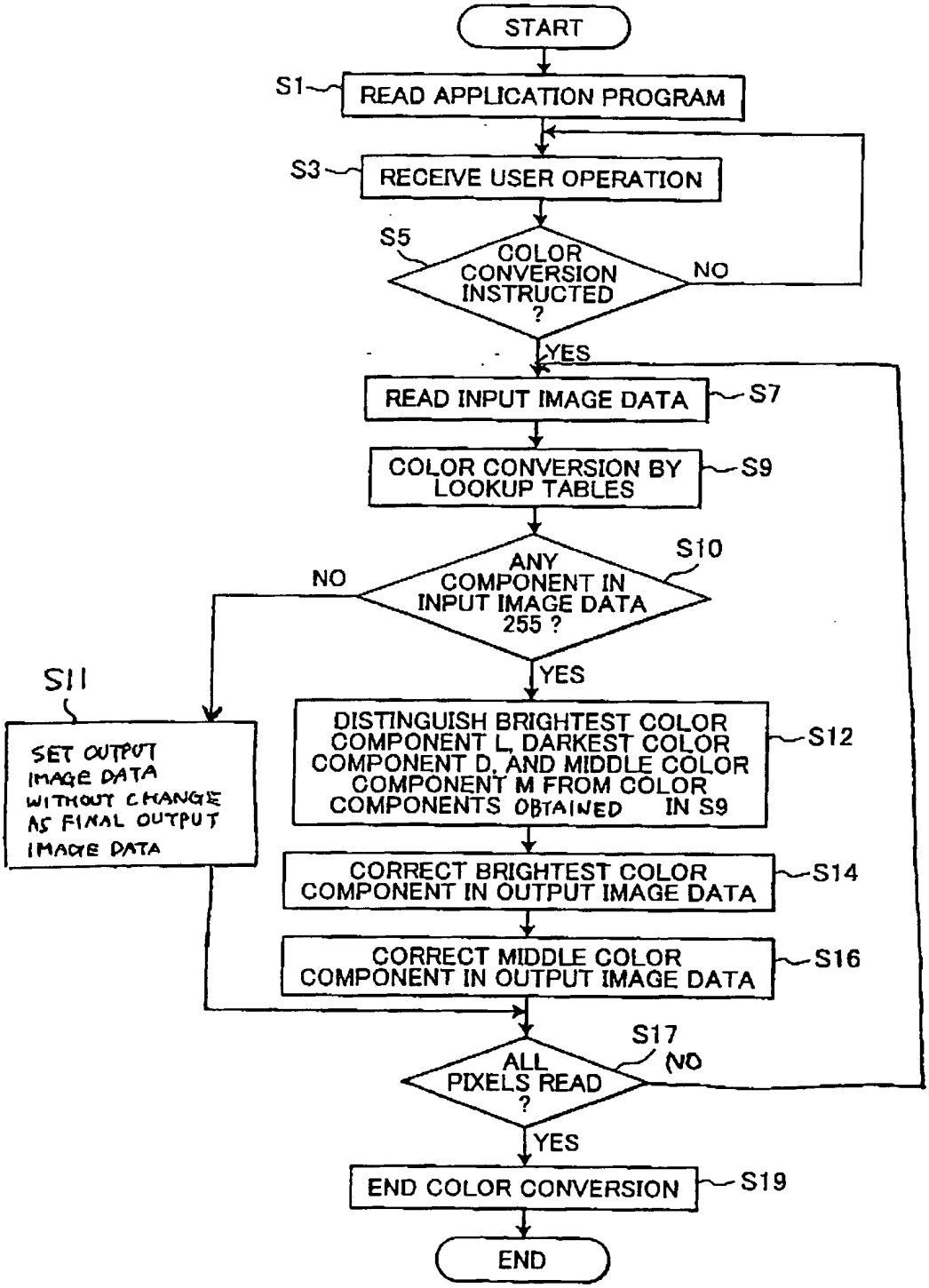

START
S1
READ APPLICATION PROGRAM
S3
RECEIVE USER OPERATION
S5
COLOR CONVERSION INSTRUCTED ?
NO
YES
READ INPUT IMAGE DATA
S7
COLOR CONVERSION BY LOOKUP TABLES
S9
S10
ANY COMPONENT IN INPUT IMAGE DATA 255 ?
NO
YES
S11
SET OUTPUT IMAGE DATA WITHOUT CHANGE AS FINAL OUTPUT IMAGE DATA
DISTINGUISH BRIGHTEST COLOR COMPONENT L, DARKEST COLOR COMPONENT D, AND MIDDLE COLOR COMPONENT M FROM COLOR COMPONENTS OBTAINED IN S9
S12
CORRECT BRIGHTEST COLOR COMPONENT IN OUTPUT IMAGE DATA
S14
CORRECT MIDDLE COLOR COMPONENT IN OUTPUT IMAGE DATA
S16
S17
ALL PIXELS READ ?
NO
YES
END COLOR CONVERSION
S19
END

FIG. 5

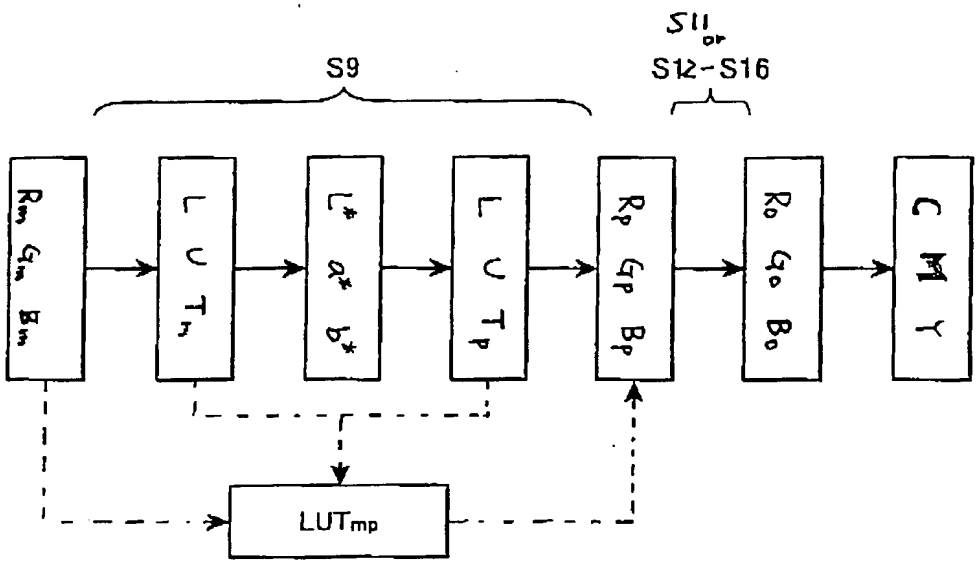

S9
S11 or S12-S16
$R_m G_m B_m$
L U T_n
$L^* a^* b^*$
L U T_p
$R_p G_p B_p$
$R_o G_o B_o$
C M Y
LUT_{mp}

FIG.6(a)

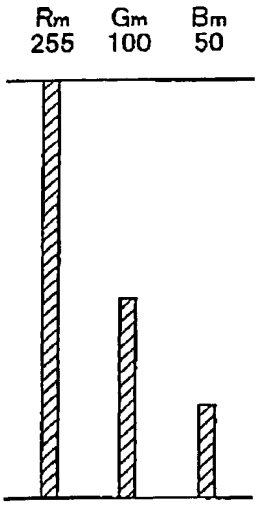


FIG.6(b)

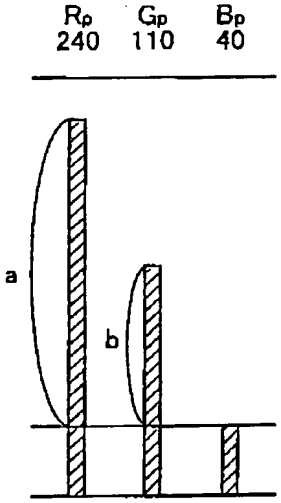


FIG.6(c)

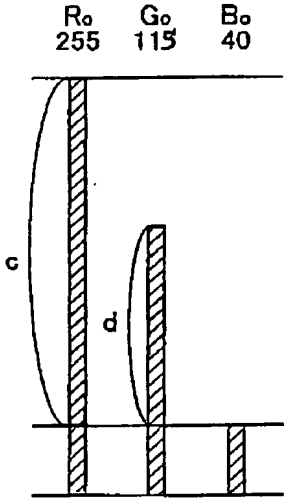


FIG.6(d)

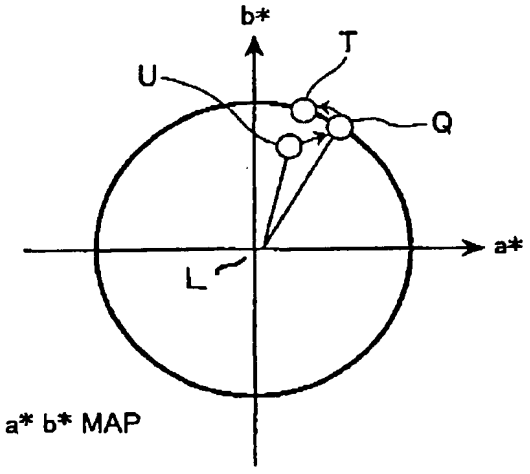


FIG.7(a)

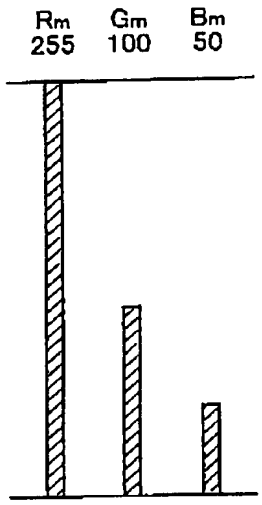


FIG.7(b)

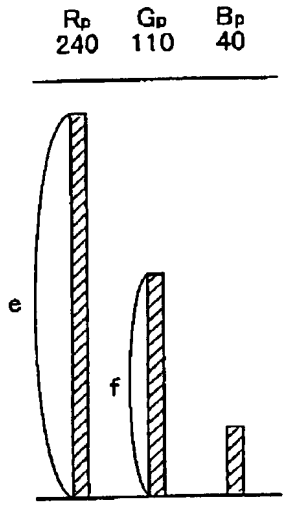


FIG.7(c)

